Approved for Entry 4/1/06

SUBSTITUTE SPECIFICATION

TITLE OF THE INVENTION

DISPLAY DEVICE AND FABRICATION METHOD THEREOF

BACKGROUND OF THE INVENTION

The present invention relates to a display device, which utilizes an emission of electrons into a space which is in a vacuum state; and a method of fabrication thereof; and, more particularly, the invention relates to a display device having a high performance and a high reliability, in which the position and the size of electron sources can be established with precision, and, at the same time, deterioration of the characteristics of the electron sources can be prevented.

As a display device which exhibits high brightness and the high definition, color cathode ray tubes have been widely used conventionally. However, along with the recent desire for information processing equipment or television broadcasting that is capable of providing images of higher quality, the demand for planar displays (panel displays) which are light in weight and require a small space, while also exhibiting a high brightness and a high definition, has been increasing. As typical examples of such panel display devices, liquid crystal display devices, plasma display devices and the like have been developed. More particularly, as display devices which provide a higher brightness, it is expected that various other kinds of panel-type display devices, including a display device which utilizes an emission of electrons from electron sources into a vacuum (hereinafter referred to as "an electron emission type display device" or "a field emission type display device") and an organic EL display device, which is characterized by low power consumption, will be put into practice.

Among panel type display devices, such as the above-mentioned field emission type display device, a display device having an electron emission